

PTO/SB/08a (08-03)
Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	10587119
Filing Date	2006-08-29
First Named Inventor	Jordi Soler Castany
Art Unit	2821
Examiner Name	Nguyen, Hoang
Attorney Docket Number	68349-00026USPX

U.S.PATENTS

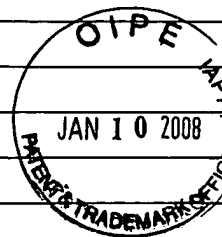
Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
	1	6674405	B2	2004-01-06	BENQ CORPORATION	
	2	6871079	B1	2005-03-22	LG ELECTRONICS INC	
	3	6535167	B2	2003-03-18	SHARP KABUSHIKI KAISHA; HISAMATSU NAKANO	
	4	6243592	B1	2001-06-05	KYOCERA CORPORATION	
	5	6184836	B1	2001-02-06	ERICSSON INC.	
	6	5990848		1999-11-23	LK-PRODUCTS OY	
	7	6016130		2000-01-18	LK-PRODUCTS OY	

If you wish to add additional U.S. Patent citation information please click the Add button.

U.S.PATENT APPLICATION PUBLICATIONS

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	10587119
Filing Date	2006-08-29
First Named Inventor	Jordi Soler Castany
Art Unit	2821
Examiner Name	Nguyen, Hoang
Attorney Docket Number	68349-00026USPX



Examiner Initial*	Cite No	Publication Number	Kind Code ¹	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
	1	20050253761	A1	2005-11-17	BENQ CORPORATION	
	2	20060019730	A1	2006-01-26	LG ELECTRONICS INC	

If you wish to add additional U.S. Published Application citation information please click the Add button.

FOREIGN PATENT DOCUMENTS

Examiner Initial*	Cite No	Foreign Document Number ³	Country Code ²	Kind Code ⁴	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear	T ⁵
	1	2004019261	WO	A2	2004-03-04	DAI NIPPON PRINTING CO		<input type="checkbox"/>
	2	0005781	WO	A1	2000-02-03	ALLGON AB		<input type="checkbox"/>
	3	1657785	EP	A1	2006-05-17	MURATA MANUFACTURING CO.		<input type="checkbox"/>
	4	0030208	WO	A1	2000-05-25	ALLGON AB		<input type="checkbox"/>
	5	9016091	WO	A1	1990-12-27	TERK TECHNOLOGIES CORPORATION		<input type="checkbox"/>
	6	9718601	WO	A1	1997-05-22	ALLGON AB		<input type="checkbox"/>

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	10587119
Filing Date	2006-08-29
First Named Inventor	Jordi Soler Castany
Art Unit	2821
Examiner Name	Nguyen, Hoang
Attorney Docket Number	68349-00026USPX



7	9807208	WO	A1	1998-02-19	CENTURION INTERNATIONAL INC	<input type="checkbox"/>
8	9831067	WO	A1	1998-07-16	SAMSUNG ELECTRONICS CO. LTD	<input type="checkbox"/>
9	0111899	WO	A1	2001-02-15	ALLGON AB	<input type="checkbox"/>

If you wish to add additional Foreign Patent Document citation information please click the Add button

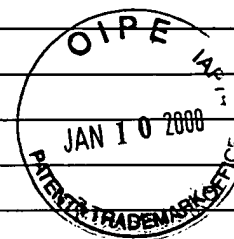
NON-PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T5
	1	KWON, Y., et al, "An internal triple-band planar inverted-F antenna", IEEE Antennas and wireless propagation letters, Vol.2, 2003	<input type="checkbox"/>
	2	"Application note MICA 2.4/5 GHz SMD Antenna", GigaAnt, 24-September-2002	<input type="checkbox"/>
	3	CHANG, F., et al, "Folded meandered-patch monopole antenna for triple-band operation", IEEE Antennas and Propagation Society International Symposium, June-2003	<input type="checkbox"/>
	4	KARAKOUSSIS, G. P., et al, "A dual-band inverted-F antenna printed on a PC card for the ISM and UNNI bands", Wireless communications and networking, 16-March-2003	<input type="checkbox"/>
	5	TAKEHIKO TSUKIJI YASUNORI KUMON, "Analysis of the double folded monopole antenna", Proceedings of the 2000 Millennium Conference on Antennas, April-2000	<input type="checkbox"/>
	6	CHANG, F. et al, "A low-profile folded monopole antenna for GSM/DCS mobile phone application", IEEE AP-S, June-2004	<input type="checkbox"/>

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number		10587119
Filing Date		2006-08-29
First Named Inventor	Jordi Soler Castany	
Art Unit	2821	
Examiner Name	Nguyen, Hoang	
Attorney Docket Number	68349-00026USPX	



7	BAI, B. et al, "A dual band meandering folded loop antenna", IEEE Antennas and Propagation Society International Symposium, June-2004	<input type="checkbox"/>
8	SHIN, Y. S. et al, "Broadband internal antenna of planar monopole type for mobile handsets", IEEE Antennas and Propagation Society International Symposium, June-2004	<input type="checkbox"/>
9	AZAD, M. Z. et al, "A compact Hilbert planar inverted-F antenna (PIFA) for dual-band mobile phone applications", IEEE Antennas and Propagation Society International Symposium, June-2004	<input type="checkbox"/>
10	"Multilayer ceramic antenna for Bluetooth/WLAN IEEE 802.11b & WLAN IEEE 802.11a (2.45/5.2GHz)(Surface mounted ceramic dual band antenna) - Product specification", Phycomp Taiwan Ltd, October-2003	<input type="checkbox"/>
11	HSIAO, F. et al, "Metal-plate 1 x 2 array antenna for 5.2/5.8 GHz WLAN operation", Electronic Letters, Vol.39, No.11, 29-May-2003	<input type="checkbox"/>
12	MANTEUFFEL, D. "Design of multiband antennas for the integration in mobile phones with optimized SAR", IEEE Antennas and Propagation Society International Symposium, June-2003	<input type="checkbox"/>
13	WERNER, D. H. et al, "An overview of fractal antenna engineering research", IEEE Antennas and propagation magazine, February-2003, Vol. 45, No. 1	<input type="checkbox"/>
14	GUO, Y., et al, "Miniature built-in multiband antennas for mobile handsets", IEEE Transactions on antennas and propagation, August-2004, Vol.52, No.8	<input type="checkbox"/>
15		<input type="checkbox"/>
16		<input type="checkbox"/>
17		<input type="checkbox"/>



PTO/SB/08a (08-03)
 Approved for use through 07/31/2006. OMB 0651-0031
 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
 Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

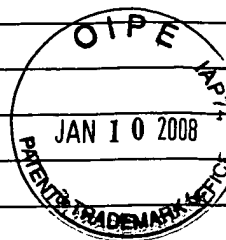
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		10587119
	Filing Date		2006-08-29
	First Named Inventor	Jordi Soler Castany	
	Art Unit	2821	
	Examiner Name	Nguyen, Hoang	
	Attorney Docket Number	68349-00026USPX	

U.S.PATENTS						
Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
	1	6674405	B2	2004-01-06	BENQ CORPORATION	
	2	6871079	B1	2005-03-22	LG ELECTRONICS INC	
	3	6535167	B2	2003-03-18	SHARP KABUSHIKI KAISHA; HISAMATSU NAKANO	
	4	6243592	B1	2001-06-05	KYOCERA CORPORATION	
	5	6184836	B1	2001-02-06	ERICSSON INC.	
	6	5990848		1999-11-23	LK-PRODUCTS OY	
	7	6016130		2000-01-18	LK-PRODUCTS OY	
If you wish to add additional U.S. Patent citation information please click the Add button.						
U.S.PATENT APPLICATION PUBLICATIONS						

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	10587119
Filing Date	2006-08-29
First Named Inventor	Jordi Soler Castany
Art Unit	2821
Examiner Name	Nguyen, Hoang
Attorney Docket Number	68349-00026USPX



Examiner Initial*	Cite No	Publication Number	Kind Code ¹	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
	1	20050253761	A1	2005-11-17	BENQ CORPORATION	
	2	20060019730	A1	2006-01-26	LG ELECTRONICS INC	

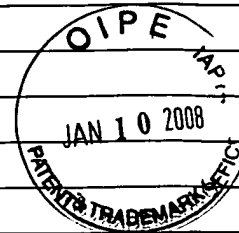
If you wish to add additional U.S. Published Application citation information please click the Add button.

FOREIGN PATENT DOCUMENTS

Examiner Initial*	Cite No	Foreign Document Number ³	Country Code ²	Kind Code ⁴	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear	T ⁵
	1	2004019261	WO	A2	2004-03-04	DAI NIPPON PRINTING CO		<input type="checkbox"/>
	2	0005781	WO	A1	2000-02-03	ALLGON AB		<input type="checkbox"/>
	3	1657785	EP	A1	2006-05-17	MURATA MANUFACTURING CO.		<input type="checkbox"/>
	4	0030208	WO	A1	2000-05-25	ALLGON AB		<input type="checkbox"/>
	5	9016091	WO	A1	1990-12-27	TERK TECHNOLOGIES CORPORATION		<input type="checkbox"/>
	6	9718601	WO	A1	1997-05-22	ALLGON AB		<input type="checkbox"/>

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	10587119
Filing Date	2006-08-29
First Named Inventor	Jordi Soler Castany
Art Unit	2821
Examiner Name	Nguyen, Hoang
Attorney Docket Number	68349-00026USPX



7	9807208	WO	A1	1998-02-19	CENTURION INTERNATIONAL INC	<input type="checkbox"/>
8	9831067	WO	A1	1998-07-16	SAMSUNG ELECTRONICS CO. LTD	<input type="checkbox"/>
9	0111899	WO	A1	2001-02-15	ALLGON AB	<input type="checkbox"/>

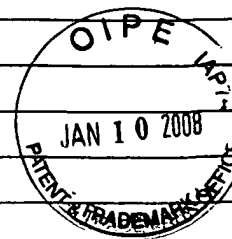
If you wish to add additional Foreign Patent Document citation information please click the Add button

NON-PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T5
	1	KWON, Y., et al, "An internal triple-band planar inverted-F antenna", IEEE Antennas and wireless propagation letters, Vol.2, 2003	<input type="checkbox"/>
	2	"Application note MICA 2.4/5 GHz SMD Antenna", GigaAnt, 24-September-2002	<input type="checkbox"/>
	3	CHANG, F., et al, "Folded meandered-patch monopole antenna for triple-band operation", IEEE Antennas and Propagation Society International Symposium, June-2003	<input type="checkbox"/>
	4	KARAKOUSSIS, G. P., et al, "A dual-band inverted-F antenna printed on a PC card for the ISM and UNNI bands", Wireless communications and networking, 16-March-2003	<input type="checkbox"/>
	5	TAKEHIKO TSUKIJI YASUNORI KUMON, "Analysis of the double folded monopole antenna", Proceedings of the 2000 Millennium Conference on Antennas, April-2000	<input type="checkbox"/>
	6	CHANG, F. et al, "A low-profile folded monopole antenna for GSM/DCS mobile phone application", IEEE AP-S, June-2004	<input type="checkbox"/>

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	10587119
Filing Date	2006-08-29
First Named Inventor	Jordi Soler Castany
Art Unit	2821
Examiner Name	Nguyen, Hoang
Attorney Docket Number	68349-00026USPX



7	BAI, B. et al, "A dual band meandering folded loop antenna", IEEE Antennas and Propagation Society International Symposium, June-2004	<input type="checkbox"/>
8	SHIN, Y. S. et al, "Broadband internal antenna of planar monopole type for mobile handsets", IEEE Antennas and Propagation Society International Symposium, June-2004	<input type="checkbox"/>
9	AZAD, M. Z. et al, "A compact Hilbert planar inverted-F antenna (PIFA) for dual-band mobile phone applications", IEEE Antennas and Propagation Society International Symposium, June-2004	<input type="checkbox"/>
10	"Multilayer ceramic antenna for Bluetooth/WLAN IEEE 802.11b & WLAN IEEE 802.11a (2.45/5.2GHz)(Surface mounted ceramic dual band antenna) - Product specification", Phycomp Taiwan Ltd, October-2003	<input type="checkbox"/>
11	HSIAO, F. et al, "Metal-plate 1 x 2 array antenna for 5.2/5.8 GHz WLAN operation", Electronic Letters, Vol.39, No.11, 29-May-2003	<input type="checkbox"/>
12	MANTEUFFEL, D. "Design of multiband antennas for the integration in mobile phones with optimized SAR", IEEE Antennas and Propagation Society International Symposium, June-2003	<input type="checkbox"/>
13	WERNER, D. H. et al, "An overview of fractal antenna engineering research", IEEE Antennas and propagation magazine, February-2003, Vol. 45, No. 1	<input type="checkbox"/>
14	GUO, Y., et al, "Miniature built-in multiband antennas for mobile handsets", IEEE Transactions on antennas and propagation, August-2004, Vol.52, No.8	<input type="checkbox"/>
15		<input type="checkbox"/>
16		<input type="checkbox"/>
17		<input type="checkbox"/>